



(Following Paper ID and Roll No. to be filled in your Answer Book)

PAPER ID : 3104

Roll No.

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M. C. A.

(SEM. II) EXAMINATION, 2008-09

ENVIRONMENTAL SCIENCE AND ETHICS

Time : 3 Hours

[Total Marks : 100

Note : The question paper contains **three** sections : SECTION-A, SECTION-B, AND SECTION - C with the weightage of 20, 30, & 50 marks respectively. Follow the instructions as given in each section.

SECTION - A

This section contains 20 questions of multiple choice / Fill in the blanks / True, False / Matching Correct answer type questions.

Attempt all parts of this section:

20×1=20

1 Fill in the blanks with suitable words:

- Most biotic resources are.....
- Chipko movement in Tihri Garhwal region was initiated by.....
- Smog is.....
- Gas leaked in Bhopal tragedy.....
- BOD is.....



Multiple choice type questions:

- (f) The environment which has been modified by human activities is called
- (a) Natural environment
 - (b) Anthropogenic environment
 - (c) Urban environment
 - (d) Modern environment
- (g) Which of the following is an example of impact of the development activities on hydrosphere?
- (a) Air Pollution
 - (b) Soil pollution
 - (c) Noise pollution
 - (d) Water pollution
- (h) The study of interaction between living and non-living organism and environment is called
- (a) Ecosystem
 - (b) Ecology
 - (c) Phyto-geography
 - (d) Phytosociology
- (i) An ecosystem consist of
- (a) Green plants and animals
 - (b) Green plants and decomposers
 - (c) Producers and consumers
 - (d) Green plants, animals, decomposers, and abiotic environment



- (j) Fossil Fuel and mineral resources are
- (a) Renewable resource
 - (b) In-exhaustive resource
 - (c) Non-renewable resource
 - (d) None of the above
- (k) Global atmospheric temperature is likely to increased due to
- (a) Burning of fossil fuel
 - (b) Water pollution
 - (c) Soil erosion
 - (d) None of the above
- (l) Atmosphere consist of 79% N_2 and 21% O_2 by
- (a) Volume
 - (b) Weight
 - (c) Density
 - (d) All of the above
- (m) Which of the following is a non-renewable resource?
- (a) Coal
 - (b) Forest
 - (c) Water
 - (d) Wildlife



- (n) Extensive planting of trees to increase forest cover is called
- (a) Afforestation
 - (b) Agroforestation
 - (c) Deforestation
 - (d) Social forestry
- (o) For DNA, RNA and Protein which element is essential?
- (a) Oxygen
 - (b) Nitrogen
 - (c) Hydrogen
 - (d) Sulphur

Indicate True or False for the following statements:

- (p) Common energy source in Indian villages are wood and animal dung - True / False
- (q) Acid rain is caused by increase in the atmospheric concentration of SO_2 and NO_2 - True / False.
- (r) Taj Mahal at Agra may be damaged by oxygen - True / False.
- (s) Noise is Loud sound - True / False
- (t) Today, the world's number one problem is population explosion - True / False.



SECTION - B

- 2 Attempt any **three** parts. All parts carry **equal** $10 \times 3 = 30$ marks.
- Enumerate the effects of deforestation. Explain the measures taken for conserving forest wealth.
 - Discuss briefly the energy problem of Earth. Give an account of fossil fuel and crude oil production in India.
 - How ozone formed and depleted in environment and what are its impacts on human beings and plants?
 - What are 'Solid Wastes' ? Discuss their types, effects and name the various methods used to dispose solid wastes. Explain any one of them with its merits and demerits.
 - Explain briefly the harmony between the materialism and spiritualism.

SECTION - C

Note : All questions are compulsory. Attempt any $10 \times 5 = 50$ **two** parts from each question.

- 3
- Explain the term 'man induced landslides'. Enumerate the measures to control landslide.
 - Describe the political and environmental situations of India.
 - Briefly discuss on Toxic chemicals, Toxicity and Hazardous waste.

OR



- 3 Write sustainable life style.
- 4 (a) What do you mean by ecological pyramids? Explain various types of pyramids with examples.
- (b) How do you justify India as a mega-diversity nation? Explain.
- (c) Write explanatory notes on
- (i) Carbon cycle
 - (ii) Nitrogen cycle
- 5 (a) What are green house gases? Explain the phenomenon of green house effect?
- (b) Describe the perspectives of global environmental issue.
- (c) What is air pollution? What are its effects on human health? Discuss the measures used for controlling air pollution.
- 6 (a) What is water pollution? What are its effects on human health?
- (b) What is noise pollution? What are the various effects of noise pollution?
- (c) What are the major cause of soil pollution? How does soil pollution effect soil productivity? What measures can be taken to prevent soil pollution?
- 7 (a) Describe social issues and environment, the western perspectives.
- (b) What is value education? Discuss the concept of value education with the help of suitable examples.



- (c) Describe the effectiveness of various religion in environmental conservation, technological progress and quality of life.

OR

- 7 What do you mean by NGOs? What are their duties? Write up the details of the work taken by any two Indian NGOs operating in India.
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